

(b) Amendments to the claims:

A detailed listing of the claims is provided which replaces all earlier versions.

1. (Previously Presented) A mesostructured film comprising amphiphilic molecular assemblies and a compound containing as a main component silica formed on the peripheries of the molecular assemblies regularly arranged three-dimensionally, the mesostructured film being formed on a substrate, wherein:

a local periodic structure in a section in parallel with the substrate of the film has a 6-fold axis perpendicular to a film plane; and

symmetric reflective surfaces of the structure including the 6-fold axis are facing in the same direction across the entire film.

2. (Previously Presented) A mesostructured film according to claim 1, wherein the amphiphilic molecular assemblies comprise surfactant micelles containing two or more nonionic surfactants of different molecular length.

3. (Previously Presented) A mesostructured film according to claim 2, wherein the two or more nonionic surfactants of different molecular length comprise nonionic surfactants containing polyethylene oxide as a hydrophilic group.

4. (Previously Presented) A mesostructured film according to claim 3, wherein the two or more nonionic surfactants of different molecular length respectively have

identical hydrophobic portions and hydrophilic polyethylene oxide portions different in molecular chain length.

5. (Previously Presented) A mesoporous material film comprising holes regularly arranged three-dimensionally and silica as a main component, the mesoporous material film being formed on a substrate, wherein:

a local periodic structure in a section of the film in parallel with the substrate has a 6-fold axis perpendicular to a film plane; and

symmetric reflective surfaces of the structure including the 6-fold axis are facing in the same direction across the entire film.

6-13. (Cancelled).

14. (Original) X-ray optical device comprising the mesostructured film according to claim 1.

15. (Currently Amended) A structure comprising spherical assemblies of amphiphilic molecules and a compound containing silica formed on the peripheries of the assemblies, wherein:

the amphiphilic molecular assemblies ~~[[is]]~~ are regularly arranged across ~~[[the]]~~ an entire area of the structure; and

the arrangement of the amphiphilic molecular assemblies has a 6-fold axis.

16. (Cancelled).

17. (Previously Presented) A mesostructured film comprising: amphiphilic molecular assemblies arranged three-dimensionally in the mesostructured film on a substrate, wherein a local structure of the film has a 6-fold symmetry axis perpendicular to the film plane, and planes of mirror symmetry containing the symmetry axis are substantially parallel throughout the film.

18. (Previously Presented) A mesostructured film having mesopores, wherein a local structure of the film has a 6-fold symmetry axis perpendicular to the film plane, and planes of mirror symmetry containing the symmetry axis are parallel throughout the film.

19. (New) A mesostructured film according to claim 1 having mesopores which are spherical.

20. (New) A mesoporous material film according to claim 5, wherein the holes are spherical mesopores.

21. (New) A structure according to claim 15, wherein the spherical assemblies are spherical mesopores.

22. (New) A mesostructured film according to claim 17, wherein the amphiphilic molecular assemblies are spherical mesopores.

23. (New) A mesostructured film according to claim 18, wherein the mesopores are spherical.